

# PROJECTION LENS SET SHIFTING APPARATUS

## Abstract

A projection lens set shifting apparatus includes a gear train, adjusting shaft and projection lens set, wherein an eccentric wheel is fixed on an output shaft of the gear train and a notch is opened at the circumference of the eccentric wheel. An eccentric pin is fixed at one end of the adjusting shaft. The eccentric pin in the notch connects the adjusting shaft and the gear train. The projection lens set is moved up and down along the adjusting shaft by rotating the gear train to drive the adjusting shaft, thus cause an image focusing location to be moved with the projection lens set and shifted up and down on a screen. Therefore, an image projection location can be changed and the image deformation is not yielded. Besides, a gap between the notch and the eccentric pin absorbs a production tolerance.